

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/015328

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L27/06 H01L27/088 H01L21/762 H01L21/8234

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/043699 A1 (AKIYAMA HAJIME) 18 April 2002 (2002-04-18)	1-3
Y	paragraphs '0004!', '0005!', '0026! paragraphs '0154!' - '0290! figures 16-29	4-14
Y	----- GB 2 310 081 A (* INTERNATIONAL RECTIFIER CORPORATION) 13 August 1997 (1997-08-13) page 1, line 1 - page 3, line 18 page 3, line 13 - line 18 page 9 - page 14 figures 3-5 figures 6-15	4-14
P, X	----- US 2004/189353 A1 (HATADE KAZUNARI ET AL.) 30 September 2004 (2004-09-30) the whole document ----- -/--	1-4



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

1 March 2005

Date of mailing of the international search report

08/03/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	US 2004/232522 A1 (SHIMIZU KAZUHIRO) 25 November 2004 (2004-11-25) the whole document -----	1-14

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Information on patent family members

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